COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

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In the Matter of:		APR 26 2010
A DDI ICATIONI OLI OLITORITA DI CAC		PUBLIC SERVICE COMMISSION
APPLICATION OF LOUISVILLE GAS)	COMMINICOLOIA
AND ELECTRIC COMPANY FOR AN)	CASE NO. 2009-00549
ADJUTMENT OF BASE RATES)	

ATTORNEY GENERAL'S PRE-FILED TESTIMONY

Comes now the intervenor, the Attorney General of the Commonwealth of Kentucky, by and through his Office of Rate Intervention, and files the following testimony in the above-styled matter.

Respectfully submitted,

JACK CONWAY

ATTORNEY CENERAL

'DENNIS G. HOWARD, II LAWRENCE W. COOK

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Certificate of Service and Filing

Counsel certifies that an original and ten photocopies of the foregoing were served and filed by hand delivery to Jeff Derouen, Executive Director, Public Service Commission, 211 Sower Boulevard, Frankfort, Kentucky 40601; counsel further states that true and accurate copies of the foregoing were mailed via First Class U.S. Mail, postage pre-paid, to:

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David Brown Stites & Harbison, PLLC 1800 Providian Center 400 West Market Street Louisville, KY 40202	Honorable Michael L Kurtz Boehm, Kurtz & Lowry 36 East Seventh Street, Suite 1510 Cincinnati, OH 45202
Honorable Frank F Chuppe Wyatt, Tarrant & Combs, LLP 500 West Jefferson Street, Suite 2800 Louisville, KY 40202-2898	Honorable Matthew R Malone Hurt, Crosbie & May PLLC The Equus Building 127 West Main Street Lexington, KY 40507
Steven A Edwards Office of the Staff Judge Advocate 1320 Third Avenue, Room 215 Fort Knox, KY 40121-5000	Honorable Kendrick R Riggs Stoll Keenon Ogden, PLLC 2000 PNC Plaza 500 W Jefferson Street Louisville, KY 40202-2828
Hon. Tom Fitzgerald Kentucky Resources Council, Inc. PO Box 1070 Frankfort, KY 40602	Honorable Allyson K Sturgeon E.ON U.S. LLC 220 West Main Street Louisville, KY 40202

Robert A Ganton, Esq U.S. Army Legal Services Agency Regulatory Law Office 901 North Stuart Street, Suite 525 Arlington, VA 22203	Honorable Robert M Watt, III STOLL KEENON OGDEN PLLC 300 West Vine Street Suite 2100 Lexington, KY 40507-1801
Honorable Gardner F Gillespie Hogan & Hartson, L.L.P. 555 Thirteenth Street, N.W. Washington, DC 20004-1109	

this 26 day of April, 2010

Assistant Attorney General

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF LOUISVILLE GAS AND)	PSC CASE NO.
ELECTRIC COMPANY FOR AN)	2009-00549
ADJUSTMENT OF BASE RATES)	

Direct Testimony of Michael J. Majoros, Jr.

On Behalf of The Office of the Attorney General

I. <u>INTRODUCTION / SUMMARY</u>

Q: Please state your name, position, and business address.

A: My name is Michael J. Majoros, Jr. I am Vice President of Snavely King Majoros O'Connor & Bedell, Inc. (Snavely King), located at 1111 14TH Street, N.W., Suite 300, Washington, D.C. 20005.

Q: Describe Snavely King.

.2

A:

Snavely King is an economic consulting firm, founded in 1970 to conduct research on a consulting basis into the rates, revenues, costs, and economic performance of regulated firms and industries. Our clients include government agencies, businesses, and individuals that purchase telecom, public utility and transportation services. In addition to consumer cost and anti-trust issues, we have provided our expertise in support of a clean environment and personal damages resulting from discrimination in agricultural programs. We believe in accountability, fair competition, and effective regulation.

The firm has a professional staff of 11 economists, accountants, engineers, and cost analysts. Most of our work involves the development, preparation, and presentation of expert witness testimony before Federal and state regulatory agencies. Over the course of our 40-year history, members of the firm have participated in more than 1,000 proceedings before almost all of the state commissions and all Federal commissions that regulate utilities or transportation industries.

Q: Have you prepared a summary of your qualifications and experience?

1	A:	Yes, Appendix A is a summary of my qualifications and experience. Appendix B
2		contains a tabulation of my appearances as an expert witness before state and
3		Federal regulatory agencies.
4	Q:	For whom are you appearing in this proceeding?
5	A:	I am appearing on behalf of the Kentucky Office of Attorney General (AG).
6	Q:	Do you have any specific experience in the public utility field?
7	A:	Yes, I have been in the field of public utility regulation since the late 1970s. My
8		testimony has encompassed numerous complex revenue requirement issues.
9		Furthermore, I and other members of my firm specialize in the field of public
10		utility depreciation. We have appeared as expert witnesses on this subject before
11		the regulatory commissions of almost every state in the country.
.2	Q:	Does your experience specifically include electric and gas utilities?
13	A:	Yes, I have appeared as an expert in several electric and gas utility proceedings.
14		II. SUBJECT AND PURPOSE OF TESTIMONY
15	Q:	What is the subject of your testimony?
16	A:	This case involves the 2009 Application for Adjustment of Base Rates of
17		Louisville Gas and Electric Company ("LGE"), a subsidiary of EON Corporation.
18	Q:	What is the purpose of your testimony?
19	A:	I have reviewed the Company's filing. Based upon my findings and the input of
20		others, I am recommending monetary adjustments to the LGE's filed request.
21		Summary of LGE's Filing
22 23	Q:	Please summarize LGE's filing.
ļ	A:	LGE filed a revenue requirement model reflecting a twelve month period ending

book numbers on the rationale that they are "known and measurable and 2 3 therefore, reasonable." LGE requested an approximately \$95.0 million electric revenue requirement increase and an approximately \$22.6 million gas revenue 4 5 requirement increase. LGE states that its electric operations are under earning because its plant has increased since its last rate case and its operation and 6 maintenance costs have increased. LGE provides testimony of several witnesses 7 8 to support its claim. 9 Q: What are the results of your review of LGE's rate request? 10 A: We have propounded numerous data requests related to the Company's rate 11 request, as well as reviewed those propounded by other intervenors. As a result of _2 this review, and in combination with the recommendations of Attorney General 13 Witnesses Woolridge and Watkins, I recommend that the Company's base rates 14 be decreased by approximately \$8.3 million for electric, as shown on Exhibit 15 MJM-1 and increased by \$0 for Gas, as shown on Exhibit MJM-3. First I will 16 discuss LGE's electric filing and then after that I will discuss LGE's gas filing. 17 LGE'S REQUEST FOR AN ADJUSTMENT OF ELECTRIC BASE RATES 18 Rate of Return Adjustment No. 1 - Capital Structure and Rate of Return 19 20 Q. What rate of return are you using to develop your recommended revenue 21 requirements? 22 A. Dr. Woolridge has informed me that, based on his review and analysis, he 73 recommends a capital structure of 50 percent debt and 50 percent equity, a 9.5

October 31, 2009. The Company proposes several adjustments to the test-period

¹ Staffieri Testimony, pages 2 to 3.

percent return on equity and a 7.06 percent overall rate of return for electric 1 2 operations. See Exhibit MJM-1 Schedule 1.1. I have used his recommendations 3 in developing my recommended LGE electric revenue requirement. 4 **Proposed Accounting Adjustments** Are you recommending any accounting adjustments to the Company's 5 Q: 6 revenue requirement filing? 7 A: Yes. I will discuss each adjustment below. My discussions will cite to any 8 exhibits necessary for an understanding of the adjustments. However, I have 9 incorporated all of the actual adjustments as Schedules to Exhibit MJM-1. 10 Adjustment No. 2 - Eliminate Weather Normalization Adjustment 11 Q. Please explain this adjustment. .2 A. The AG has consistently disagreed with this type of adjustment for electric 13 companies in prior cases. For consistency, he also disagrees in this case. Mr. 14 Watkins provides more explanation of the adjustment. Adjustment No. 2 is 15 included on my Exhibit MJM-1 Schedule 1.2. 16 Adjustment No. 3 - Apply Storm Damage and Other Regulatory Assets to 17 Regulatory Liability for Accrued Asset Removal Costs 18 19 Q. Please explain Adjustment No. 3. 20 Witness Scott increased operating expenses by \$27.6 million and \$8.7 million for A. the regulatory assets approved by the Commission for the 2008 and 2009 storms.² 21 22 Q. Do you disagree with Ms Scott's figures? 23 A. I agree with Ms Scott's figures, I disagree with her attempt to increase charges to 74 ratepayers for these amounts; such increases are not necessary.

² Scott Testimony, page 7.

Q. Explain why it is not necessary to increase charges to ratepayers for commission-approved regulatory assets.

A. It is not necessary because ratepayers have already prefunded these costs. Exhibit MJM-2 demonstrates that LGE reports a \$258.9 million regulatory liability for accrued asset removal costs.³ This regulatory liability represents money collected from ratepayers to provide for cost of removal expense in excess of its actual cost of removal expenses. In other words, LGE did not use it for its intended purposes. In fact, LGE continues to collect excess removal costs through the commission-approved depreciation rates; hence the regulatory liability will continue to grow. It does not make any sense to increase charges to ratepayers for storm damages when LGE has already collected \$258.9 million and will continue to collect such money. LGE should apply the commission-approved Storm Damage Regulatory Assets and related amounts to LGE's Cost of Removal Regulatory Liability. Exhibit MJM-1 Schedules 1.3.1 and 1.3.2 show these adjustments.

Q. Are there any other reasons the ratepayers should be concerned about that money?

A. Yes, LGE's Cost of Removal Regulatory Liability is likely to disappear when LGE begins accounting under the new International Financial Accounting Standards ("IFRS"). That is because, when LGE adopts IFRS, it will reduce the huge regulatory liability to its present value. It will transfer the entire excess to its equity account and then, should the Commission try to get the ratepayers' money

³ Charnas Response to AG-171.

A. Yes, LGE has increased its revenue requirement for the commission-approved regulatory assets relating to LGE's investments in the Kentucky Consortium for Carbon Storage ("KCCS") and the Carbon Management Resources Group ("CMRG"). Q. What do you recommend concerning these other regulatory assets? A. LGE should also apply those commission-approved regulatory assets to its Conformation of Removal Regulatory Liability. Q. Do you have an Exhibit showing these adjustments? A. Yes, Exhibit MJM-1 Schedules 1.3.3 and 1.3.4 show the adjustments. Adjustment 4 Consolidated Tax Adjustment Q. Please explain Adjustment 4. A. My adjustment No. 4 reduces LGE's income tax expense by the average consolidated tax savings attributable to LGE. I used the "effective tax methodology" approved the Commission in Case No. 2004-00103. adjustment reflects the average tax losses, excluding regulated losses, for the years ending in 2008. I requested the 2009 figures in order to calculate a figural year average, but the Company did not provide them. Q. Do you agree with consolidated tax adjustments?	1		back, LGE will claim the Commission is unlawfully taking its money. That will
Q. Has LGE increased its revenue requirement for any other regulatory asset A. Yes, LGE has increased its revenue requirement for the commission-approved regulatory assets relating to LGE's investments in the Kentucky Consortium for Carbon Storage ("KCCS") and the Carbon Management Resources Group ("CMRG"). Q. What do you recommend concerning these other regulatory assets? A. LGE should also apply those commission-approved regulatory assets to its Co of Removal Regulatory Liability. Q. Do you have an Exhibit showing these adjustments? A. Yes, Exhibit MJM-1 Schedules 1.3.3 and 1.3.4 show the adjustments. Adjustment 4 Consolidated Tax Adjustment Q. Please explain Adjustment 4. A. My adjustment No. 4 reduces LGE's income tax expense by the avec consolidated tax savings attributable to LGE. I used the "effective tax methodology" approved the Commission in Case No. 2004-00103. adjustment reflects the average tax losses, excluding regulated losses, for the years ending in 2008. I requested the 2009 figures in order to calculate a till year average, but the Company did not provide them. Q. Do you agree with consolidated tax adjustments?	2		be difficult to challenge when the entire world accounting profession will
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Adjustment 4 Consolidated Tax Adjustment Q. Please explain Adjustment 4. A. My adjustment No. 4 reduces LGE's income tax expense by the average tax savings attributable to LGE. I used the "effective tax methodology" approved the Commission in Case No. 2004-00103. adjustment reflects the average tax losses, excluding regulated losses, for the years ending in 2008. I requested the 2009 figures in order to calculate a transport of the company did not provide them. Q. Do you agree with consolidated tax adjustments?	-12	Q.	Do you have an Exhibit showing these adjustments?
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A. My adjustment No. 4 reduces LGE's income tax expense by the average tax savings attributable to LGE. I used the "effective tax methodology" approved the Commission in Case No. 2004-00103. adjustment reflects the average tax losses, excluding regulated losses, for the years ending in 2008. I requested the 2009 figures in order to calculate a figure year average, but the Company did not provide them. Q. Do you agree with consolidated tax adjustments?	14	Adju	stment 4 Consolidated Tax Adjustment
17 consolidated tax savings attributable to LGE. I used the "effective tax methodology" approved the Commission in Case No. 2004-00103. 19 adjustment reflects the average tax losses, excluding regulated losses, for the years ending in 2008. I requested the 2009 figures in order to calculate a to year average, but the Company did not provide them. 20 Q. Do you agree with consolidated tax adjustments?	15	Q.	Please explain Adjustment 4.
methodology" approved the Commission in Case No. 2004-00103. adjustment reflects the average tax losses, excluding regulated losses, for the years ending in 2008. I requested the 2009 figures in order to calculate a the year average, but the Company did not provide them. Q. Do you agree with consolidated tax adjustments?	16	A.	My adjustment No. 4 reduces LGE's income tax expense by the average
adjustment reflects the average tax losses, excluding regulated losses, for the years ending in 2008. I requested the 2009 figures in order to calculate a the year average, but the Company did not provide them. 20 Q. Do you agree with consolidated tax adjustments?	17		consolidated tax savings attributable to LGE. I used the "effective tax rate
years ending in 2008. I requested the 2009 figures in order to calculate a the year average, but the Company did not provide them. 22 Q. Do you agree with consolidated tax adjustments?	18		methodology" approved the Commission in Case No. 2004-00103. This
year average, but the Company did not provide them. 22 Q. Do you agree with consolidated tax adjustments?	19		adjustment reflects the average tax losses, excluding regulated losses, for the two
Q. Do you agree with consolidated tax adjustments?	20		years ending in 2008. I requested the 2009 figures in order to calculate a three-
	21		year average, but the Company did not provide them.
A. Yes, I do. In my opinion, it is incorrect to charge ratepayers for taxes that no	22	Q.	Do you agree with consolidated tax adjustments?
	ۇ	A.	Yes, I do. In my opinion, it is incorrect to charge ratepayers for taxes that neither

1		the Company nor its parent will ultimately pay to the federal government.
2	Q.	Do you have an Exhibit showing this adjustment?
3	A.	Yes, Exhibit MJM _1 Schedule 1.4 shows the adjustment.
4	Q.	How does this adjustment affect LGE's revenue requirement?
5	A.	It reduces LGE's electric operating expenses by \$34.9 million as shown on page 1
6		of Exhibit MJM-1 Schedule 1.4.1 Line 7 and it also affects the calculation of the
7		composite income tax rate and the revenue requirement conversion factor as
8		shown on, respectively, Schedules 1.4.2 Line 11 and 1.4.4 Line 11.
9	Q.	Have you included an interest synchronization adjustment?
10	A.	Yes, on Schedule 1.4.3 I have incorporated the interest synchronization
11		adjustment of the consolidated tax adjustment because it depends on the effective
12		tax rate.
13	Q.	Does this conclude your discussion of your adjustments to LGE's revenue
14		requirement?
15	A.	Yes, it does.
16	Q.	What is the result of your recommendations?
17	A.	LGE proposes a \$95.0 million electric increase, I recommend a \$8.3 decrease.
18	Q.	Will you now discuss LGE's gas revenue requirement request?
19	A.	Yes.
20	I.	LGE's REQUEST FOR AN ADJUSTMENT OF GAS BASE RATES
21		Summary of LGE Filing
22 23	Q:	Please summarize LGE's gas filing.
į.	A:	LGE requested an approximate \$22.6 million gas revenue increase. LGE does not

1		state the cause of its under earning.
2	Q:	What are the results of your review of LGE's gas rate request?
3	A:	As a result of our review, and in combination with the recommendations of
4		Attorney General Witnesses Woolridge and Watkins, I recommend that the
5		Company's gas base rates be increased by \$0 as shown on Exhibit MJM-3.
6		Adjustment No. 1 - Rate of Return
7	Q.	What rate of return are you using?
8	A.	Dr. Woolridge has informed me that, based on his review and analysis, he
9		recommends a capital structure of 50 percent debt and 50 percent equity, a 9.0
10		percent return on equity and a 6.81 percent overall rate of return for gas
11		operations. See Exhibit MJM-3 Schedule 3.1.
. 2		Proposed Accounting Adjustments
13	Q:	Are you recommending any individual accounting adjustments to the
14		Company's revenue requirement filing?
15	A:	Yes. I will discuss each adjustment below. My discussions will cite to any
16		exhibits necessary for an understanding of the adjustments. However, I have
17		incorporated all of the actual adjustments as Schedules to Exhibit MJM-3.
18 19		Adjustment No. 2 - Apply Storm Damage Regulatory Asset to Regulatory Liability for Accrued Asset removal Costs
20 21	Q.	Please explain Adjustment No. 2.
22	A.	Witness Scott increased gas operating expenses by \$33.5 thousand for the
23		regulatory asset approved by the Commission of the 2009 storm. ⁴
74	Q.	Do you disagree with Ms Scott's figures?

⁴ Scott Testimony, page 7.

1	A.	I agree with Ms Scott's figures, I disagree with her attempt to increase charges to
2		ratepayers for these amounts. I described my rational for this adjustment in my
3		discussion of LGE's electric revenue requirement adjustments.
4	Q.	Do you have an Exhibit showing this adjustment?
5	A.	Yes, Exhibit MJM-3 Schedule 3.2.1 shows the adjustment.
6	Adju	stment 3 Consolidated Tax Adjustment
7	Q.	Please explain Adjustment 3.
8	Α.	My adjustment No. 3 reduces LGE's income tax expense by the average
9		consolidated tax savings attributable to LGE. I used the "effective tax rate
10		methodology" approved the Commission in Case No. 2004-00103. This
11		adjustment reflects the average tax losses, excluding regulated losses, for the two
.2		years ending in 2008. I requested the 2009 figures in order to calculate a three-
13		year average, but the Company did not provide them. I described my rational for
14		this adjustment in my discussion of LGE's electric revenue requirement
15		adjustments.
16	Q.	Do you have an Exhibit showing this adjustment?
17	A.	Yes, Exhibit MJM-3 Schedules 3.3.1, 3.3.2 and 3.3.4 show this adjustment.
18	Q.	Have you included an interest synchronization adjustment?
19	A.	Yes, on Schedule 3.3.3 I have incorporated the interest synchronization
20		adjustment of the consolidated tax adjustment because it depends on the effective
21		tax rate.
22	Q.	Does this conclude your testimony?
j	A.	Yes.

							Exhibit MJM-1
	LOUISVILLE GAS AND ELECTRIC COMPANY						
	Adjustments to Electric and Gas Operating Revenues, Operating Expenses and Net	Operating Incom		Electric Depart	ment		
	For the Twelve Month. Ended October 31, 2009			Electric Depart	ileit	Company	AG
_						Net	Net
			Reference	Operating	Operating	Operating	Operating
			Schedule	Revenues	Expenses	Income	Income
			(1)	(2)	(3)	(4)	(4)
	Jurisdictional amount per books Adjustments for known changes and to eliminate unrepresentative conditions:			958,491,753	824,538,507	133,953,246	133,953,246
4	Adjustments for known changes and to eliminate unrepresentative conditions:						
3	Adjustment to eliminate unbilled revenues	Bellar	1.00	(2,871,000)		(2,871,000)	(2,871,000
	Adjustment to eliminate Merger Surcredit	Bellar	1.01	2,323,679		2,323,679	2,323,679
	Adjustment to eliminate Value Delivery Surcredit	Bellar	1.02	(395)		(395)	
	To adjust mismatch in fuel cost recovery	Conroy	1.03	(32,833,346)	(27,086,657)	(5,746,689)	(5,746,689
	To adjust base rates and FAC 10 reflect a full year ofthe base rate change and	Conroy Exh 3	1.04	(3,104,008)		(3,104,008)	(3,104,008
	FACroll-in Adjustment to eliminate Environmental Surcharge revenues and expenses)	Conroy Exh 3	1.05	(8,394,624)	(3,707,947)	(4,686,677)	
	To adjust base rate revenues and expenses to reflect a full year ofthe ECR roll-in	Conroy Exh 2	1.05	(0,554,624)	(3,707,347)	(4,000,077)	(4)000/073
-	To dejude buse rate revenues and expenses to remove a rate jear entire control in	como, cm z	1.06	6,853,924	3,377,839	3,476,085	3,476,085
10	Off-system sales revenue adjustment for the ECR calculation	Conroy	1.07	(2,033,628)		(2,033,628)	(2,033,628
11	To eliminate net brokered and financial swap revenues and expenses	Scott	1.08	(10,165,209)	(248,375)	(9,916,834)	
	To eliminate ECR, MSR, FAC, and DSM accruals	Charnas	1.09	3,333,166	/7 7	3,333,166	
	To eliminate DSM revenue and expenses	Conroy	1.10	(12,207,246)	(7,314,564) 1,899,644	(4,892,682) 3,251,579	
	To reflect weather normalized electric sales margins Adjustment to annualize year-end customers	Seelye Seelye	1,11	5,151,223 11,451,462	7,956,625	3,494,837	
	To adjust for customer billing corrections and rate switching	Conroy Exh 4	1.13	(875,110)	,,,,,,,,,,	(875,110)	
	This adjustment left intentionally blank	Bellar	1.14				
	Adjustment to reflect annualized depreciation expenses	Charnas =>					
		Bellar	1.15		6,204,918	(6,204,918)	
	Adjustment to reflect increases in labor and labor related costs	Scott => Rives	1.16		1,827,123	(1,827,123)	
	Adjustment for pension, post retirement and post employment costs Adjustment to reflect the increase in property insurance expense	Scott => Rives Arbough	1.17 1.18		314,825 355,686	(314,825)	
	Adjustment to reflect the increase in property insurance expense Adjustment to reflect new pollution liability insurance expense	Arbough	1.19		514,962	(514,962	
	Adjustment for hazard tree program	Bellar	1.20		1,759,303	(1,759,303	
	Adjustment to reflect normalized storm damage expense	Scott Exh 1	1.21		(670,600)	670,600	
	Adjustment for injuries and damages FERC account 925	Charnas	1.22		313,993	(313,993	(313,993
	Adjustment to eliminate advertising expenses pursuant to Commission Rule 807	Charnas					
	KAR 5:016	61	1.23		(404,623)	404,623	
	Adjustment for expenses related to retired mainframe Adjustment for MISO Exit Fee regulatory asset	Charnas Scott => Rives	1.24	ļ	(1,048,815) (157,119)	1,048,815 157,119	
	Adjustment for EKPC regulatory asset	Scott	1.26	<u> </u>	904,386	(904,386	
	Adjustment for 2008 Wind storm regulatory asset	Scott	1.27		27,630,386	(27,630,386	
	Adjustment for 2009 Winter storm regulatory asset	Scott	1.28		8,734,140	(8,734,140	
	Adjustment for KCCS regulatory asset	Bellar	1.29		343,330	(343,330	
	Adjustment for CMRG regulatory aSset	Bellar	1.30	ļ	(1,940)	1,940	
	Adjustment to reflect amortization of rate case expenses Adjustment for Southwest Power Pool settlement expenses	Charnas Bellar	1.31		324,253 (583,743)	(324,253 583,743	
	Adjustment to remove out of period adjustment for resettlements related to	Scott	1.52		(303,743)	303,173	303,74.
30	MISO RSG	Scott	1.33		(429,911)	429,911	429,91
	Adjustment for USGC settlement for gypsum contract		1.34	(654,600)	480,212	(1,134,812	
	Adjustment to remove FERC Hydropower program charges	Charnas	1.35		(157,135)	157,135	
	Adjustment for Interest rate swap amortization	Arbough Exh 3	1.36		205,798	(205,798	
	Adjustment to correct Edison Electric Institute invoice	Charnas	1.37		62,735	(62,735	
	To adjust property tax expense Adjustment to revenues and expenses to eliminate gas supply cost recoveries	Miller	1.38	1	815,661	(815,661	(815,66
	and gas supply expenses		1.39				
	Adjustment to revenues for temperature normalization		1.40				
	AG Consolidated Tax Adjustment						34,851,79
	Total of above adjustments	}		(44,025,712)	22,214,390	(66,240,102	2,066,02
45	Federal and state income taxes corresponding to base revenue and expense	27 10120	1.41		(24 626 620)	24 635 530	
	adjustments and above adjustments - AG Federal and state income taxes -	37.1912% 11.8882%	1.41	-	(24,635,520)	24,635,520	245,61
46					†		2-13,01.
	year-end interest expense		1.42		(160,039)		
	Prior income tax true-ups and adjustments		1.43		2,641,449		(2,641,44
	Adjustment for domestic production activities deduction	·	1.44		(1,259,667)		
	Adjustment for tax basis depreciation reduction	_	1.45	-	345,849	(345,849 87,982	
	Adjustment for amortization of investment tax credit Total adjustments	-	1.46	(44,025,712)	(87,982) (941,520)		
	Adjusted Net Operating Income	 		914,466,041		90,862,701	
				1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Rives							
hibit 8		-	 	-			-
ne No.	Adjusted Electric Capitalization (Rives Exhibit 2)	1	 	 	 	1,805,791,768	1,805,791,76
2	Total Cost of Capital (8.32% Co.) and 7.06% AG - Schedule 1.1	1	 	 		8.32	
	Net Operating Income (Line 1 x Line 2)	 			 	150,241,875	
	Pro-forma Net Operating Income - Line 51, above					90,862,701	134,815,16
5	Net Operating Income Deficiency/(Sufficiency) (Line 3 - Line 4)					59,379,174	(7,326,26
6	Gross Up Revenue Factor (.62521919 Co.) and .87794723 AG - Schedule 1.4.4 Li					0.62521919	0.877947

 $\Big(\int_{\mathbb{R}^n} |f|^2 df$

Electric Utility Operations Capitalization at October 31, 2009

	Capitalization	Cost	Weighted
Capital Source	Ratio*	Rate	Cost Rate
Short-Term Debt	0.00%	0.22%	0.00%
Long-Term Debt	50.00%	4.61%	2.31%
Common Equity	50.00%	9.50%	4.75%
Total	100.00%		7.06%

Adjustment to Reflect Weather Normalized Electric Sales Margins <u>For the Twelve Months Ended October 31, 2009</u>

	Company Electric			AG Electric		
1. Revenue adjustment	\$	5,151,223	\$	-		
2. Expense adjustment		1,899,644		-		
3. Net adjustment	\$	3,251,579	\$	_		

Adjustment for 2008 Wind Storm Regulatory Asset For the Twelve Months Ended October 31, 2009

			Company	AG
			Electric	Electric
1. Kentucky Jurisdictional 2008 Wind Storm Regulatory Asset	•	\$	23,540,333	\$ -
2. Amortization period in years			5	 0
3. Amortization per year		\$	4,708,067	\$ -
4. Amortization recorded in test year			-	-
Reverse net credits during the test year to establish the regulatory asset			22,922,319	 -
6. Total Adjustment		_\$_	27,630,386	\$ -

Adjustment for 2009 Winter Storm Regulatory Asset For the Twelve Months Ended October 31, 2009

		Company Electric		AG ectric
1. Kentucky Jurisdictional 2009 Winter Storm Regulatory Asset	\$	43,693,631	\$	•
2. Adjustment to 2009 Winter Storm Regulatory Asset made in Nov '09	_\$	(22,930)		-
3. Subtotal	\$	43,670,702	\$	-
4. Amortization period in years		5	***************************************	0
5. Amortization per year	\$	8,734,140	\$	-
6. Amortization recorded in test year	***************************************	_		=
7. Total Adjustment	\$	8,734,140	\$	•

Adjustment for KCCS Regulatory Asset For the Twelve Months Ended October 31, 2009

		Company Electric		
1. KCCS Regulatory Asset recorded as of 10/31/2009	\$	769,221	\$	-
2. KCCS payment made December 2009		108,819		-
3. Total KCCS Regulatory Asset at 12/31/2009	\$	878,040	\$	**
4. Amortization period in years	***************************************	44_		0
5. Adjustment for annual amortization	\$	219,510	\$	-
6. Reverse credit for reclass to regulatory asset		123,820		0
7. Adjustment for annual amortization	\$	343,330	\$	

Adjustment for CMRG Regulatory Asset For the Twelve Months Ended October 31, 2009

	Company Electric	AG ectric
1. CMRG Regulatory Asset	\$ 2,000,000	\$ -
2. Company Allocation	48.78%	-
3. CMRG Regulatory Asset	\$ 975,600	\$
4. Amortization period in years	 10	0
5. Amortization per year	\$ 97,560	\$ -
6. Expense recorded during test year	 99,500	 0
7. Total Adjustment (Line 5 - Line 6)	\$. (1,940)	\$ ***

KU & LG&E Consolidated Tax Savings and Effective Tax Rate

•									
	KU]	2007	2008	2009	2 Year Average			
1	Positive Taxable Income								
2	KU Taxable Income								
3	Percent KU								
4	Tax Losses								
5	Tax Losses Allocated to KU								
6	2 Year Average								
	Federal Income Taxes			· ·					
7	@35%	0.35							
8	Effective tax rate								
				······································					
				ı		1			
	LG&E		2007	2008	2009	2 Year Average			
	LG&E		2007	2008	2009	2 Year Average			
9	LG&E Positive Taxable Income		2007	2008	2009	2 Year Average			
9 10			2007	2008	2009	2 Year Average			
_	Positive Taxable Income		2007	2008	2009	2 Year Average			
10	Positive Taxable Income LG&E Taxable Income		2007	2008	2009	2 Year Average			
10 11	Positive Taxable Income LG&E Taxable Income Percent LG&E		2007	2008	2009	2 Year Average			
10 11 12	Positive Taxable Income LG&E Taxable Income Percent LG&E Tax Losses		2007	2008	2009	2 Year Average			
10 11 12 13	Positive Taxable Income LG&E Taxable Income Percent LG&E Tax Losses Tax Losses Allocated to LG&E		2007	2008	2009	2 Year Average			
10 11 12 13	Positive Taxable Income LG&E Taxable Income Percent LG&E Tax Losses Tax Losses Allocated to LG&E 2 Year Average	0.35	2007	2008	2009	2 Year Average			

Source: Response to AG 1-57

Calculation of Composite Federal and Kentucky Income Tax Rate (Based on Law in Effect January 1, 2010)

1. Assume pre-tax income of	Company 100.000000	AG 100.000000
2. State income tax at 6.00%	5.736438	5.695585348
3. Taxable income for Federal income tax before production deduction Production Rate 0.09 Allocation to Production Income 0.5175 Allocated Production Rate 4.66%	n 94.263562	94.304415
4. Less: Production tax deduction (5.38% of Line 3)	4.3927	5.073577527
5. Taxable income for Federal income tax (Line 3 - Line 4)	89.87088001	89.23083747
6. Federal income tax at 35% (Line 5 x 35%)	31.454808	6.192620121
7. Total State and Federal income taxes (Line 2 + Line 6)	37.191246	11.88820547
 8. Therefore, the composite rate is: 9. Federal 10. State 11. Total 	0.31454808 0.05736438 0.37191246	0.061926201 0.056955853 0.118882055
State Income Tax Calculation 1. Assume pre-tax income of	100.000000	100.000000
2. Less: Production tax deduction	4.3927	5.073577527
3. Taxable income for State income tax	95.607300	94.926422
4. State Tax Rate	0.06	0.06
5. State Income Tax	5.736438	5.695585348

Calculation of Current Tax Adjustment Resulting <u>From "Interest Synchronization"</u>

	 Compar	ny	······	AG			
1. Adjusted Jurisdictional Capitalization - Exhibit 2	\$ Electric 1,805,791,767	\$	Gas 466,472,963	\$	Electric 1,805,791,767	\$	Gas 466,472,963
2. Weighted Cost of Debt - Exhibit 2	0.0213		0.0213		0.0231		0.0231
3. "Interest Synchronization"	38,463,365		9,935,874		41,713,790		10,775,525
4. Kentucky Jurisdictional Interest per books (excluding other interest)	38,050,134		9,742,761		38,050,134		9,742,761
5. "Interest Synchronization" adjustment (Line 4 - 3)	(413,231)		(193,113)		(3,663,656)		(1,032,764)
6. Composite Federal and State tax rate	0.37191246		0.37191246		0.118882055		0.118882055
7. Current tax adjustment from "Interest Synchronization"	\$ (153,686)	\$	(71,821)	\$	(435,543)	\$	(122,777)

Calculation of Revenue Gross Up Factor (Based on Law in Effect January 1, 2010)

	Company	AG
1. Assume pre-tax income of	100.000000	100.000000
2. Bad Debt at .2800%	0.315650	0.315650
3. PSC Assessment at .1538%	0.153800	0.153800
4. Production Tax Credit (Reference Schedule 1.41)	4.392682	4.392682
5. Taxable income for State income tax	95.137868	95.137868
6. State income tax at 6.00%	5.708272	5.708272
7. Taxable income for Federal income tax	89.429596	89.429596
8. Federal income tax at (35% Co.) and 6.94 % SK	31.30035857	6.027554765
9. Total Bad Debt, PSC Assessment, State and Federal income taxes (Line 2 + Line 3 + Line 6 + Line 8)	37.478081	12.205277
10. Assume pre-tax income of	100.000000	100.000000
11. Gross Up Revenue Factor	62.521919	87.794723

Response to Question No. 171
Page 1 of 2
Charnas

LOUISVILLE GAS AND ELECTRIC COMPANY

CASE NO. 2009-00549

Response to Attorney General's Initial Requests for Information Dated March 1, 2010

Question No. 171

Responding Witness: Shannon L. Charnas

- Q-171. Provide an analysis of the regulatory liability for accrued asset removal costs since inception identifying and explaining each debit and credit entry and amount. Also, provide the copies of the pages from each of LG&E's SEC Form 10Ks, Form 10Qs and Annual Reports in which SFAS No. 143 was ever mentioned, whether or not LG&E had quantified an amount of the regulatory liability at the time. Specify the exact date each of these reports was issued and released to the public.
- A-171. Please see the following table for an analysis of the regulatory liability for accrued asset removal cost since inception:

Regulatory Liability Balance 12/31/03	\$ (216,490,616)
Depreciation	(16,318,457)
Net Cost of Removal Charges	12,595,566
Regulatory Liability Balance 12/31/04	(220,213,507)
Depreciation	(16,849,489)
Net Cost of Removal Charges	7,509,011
Reclass of COR to Regulatory Liability from Life Reserves	8,260,343
FIN 47 Parent COR Transfer to FERC 254	2,424,396
Regulatory Liability Balance 12/31/05	(218,869,246)
Depreciation	(17,845,502)
Net Cost of Removal Charges	4,476,149
Regulatory Liability Balance 12/31/06	(232,238,599)
Depreciation	(17,610,294)
Net Cost of Removal Charges	8,904,588
Regulatory Liability Balance 12/31/07	(240,944,305)
Depreciation	(18,498,025)
Net Cost of Removal Charges	8,784,192
Regulatory Liability Balance 12/31/08	(250,658,138)
Depreciation	(18,420,695)
Net Cost of Removal Charges	10,206,477
Regulatory Liability Balance 10/31/09	\$ (258,872,356)

Response to Question No. 171
Page 2 of 2
Charnas

For copies of pages referencing SFAS No. 143¹ from LG&E's SEC Form 10Ks, Form 10Qs and Annual Reports, see the CD provided, in the folder titled Question No. 171. The following table specifies the date these reports were released:

Document	Released Date
2008 LG&E Annual Report	03/24/09
2008 KU Annual Report	03/24/09
2007 LG&E Annual Report	03/20/08
2007 KU Annual Report	03/20/08
2006 LG&E 10-K	03/21/07
2006 KU Annual Report	03/29/07
2006 LG&E and KU 10-Q, quarter ended 3/31/06	05/04/06
2005 LG&E and KU 10-K	03/30/06
2005 LG&E and KU 10-Q, quarter ended 9/30/05	11/10/05
2005 LG&E and KU 10-Q, quarter ended 6/30/05	08/12/05
2005 LG&E and KU 10-Q, quarter ended 3/31/05	05/13/05
2004 LG&E and KU 10-K	03/30/05
2003 LG&E and KU 10-K	03/30/04
2003 LG&E and KU 10-Q, quarter ended 9/30/03	11/13/03
2003 LG&E and KU 10-Q, quarter ended 6/30/03	08/13/03
2003 LG&E and KU 10-Q, quarter ended 3/31/03	05/14/03
2002 LG&E and KU 10-K	03/25/03
2002 LG&E and KU 10-Q, quarter ended 9/30/02	11/14/02
2002 LG&E and KU 10-Q, quarter ended 6/30/02	08/14/02
2002 LG&E and KU 10-Q, quarter ended 3/31/02	05/14/02
2001 LG&E and KU 10-K	03/28/02
2001 LG&E and KU 10-Q, quarter ended 3/31/01	11/14/01

¹ The guidance in SFAS No. 143 is now contained in FASB Accounting Standards Codification Topic 410, adopted effective September 30, 2009.

							xhibit MJM-3
	LOUISVILLE GAS AND ELECTRIC COMPANY						
	Adjustments to Electric and Gas Operating Revenues, Operating Expenses and Ne For the Twelve Month. Ended October 31, 2009	t Operating Inco			Gas Department		
	To the twelve Month. Elided October 31, 2009					Company	AG
						Net	Net
			Reference	Operating	Operating	Operating	Operating
	***************************************		Schedule	Revenues	Expenses	Income	Income
		V-14	(1)	(5)	(6)	(7)	(7)
	Jurisdictional amount per books Adjustments for known changes and to eliminate unrepresentative conditions:			418,890,259	398,969,916	19,920,343	19,920,344
-	Adjustments for known changes and to eliminate unrepresentative conditions.						
3	Adjustment to eliminate unbilled revenues	Bellar	1.00	11,377,000		11,377,000	11,377,000
		Bellar	1.01				
		Bellar	1.02	(323)		(323)	(323
		Conroy	1.03				
′	To adjust base rates and FAC to reflect a full year of the base rate change and FAC roll-in	Conroy Exh 3	1.04	9,941,139		9,941,139	9,941,139
8	Adjustment to eliminate Environmental Surcharge revenues and expenses)	Conroy Exh 3	1.05	9,541,139		9,541,135	3,571,135
		Conroy Exh 2	2.00				
	in	,	1,06				
	Off-system sales revenue adjustment for the ECR calculation	Conroy	1.07				
	To eliminate net brokered and financial swap revenues and expenses	Scott	1.08				
		Charnas	1.09	2,228,479	(4 000 075)	2,228,479	2,228,479
	To eliminate DSM revenue and expenses To reflect weather normalized electric sales margins	Conroy Seelye	1.10	(2,319,554)	(1,898,813)	(420,741)	(420,741
15	Adjustment to annualize year-end customers	Seelye	1.11	1,760,940	541,722	1,219,218	1,219,218
_16	To adjust for customer billing corrections and rate switching	Conroy Exh 4	1.13	22,135	371,722	22,135	22,135
17	This adjustment left intentionally blank	Bellar	1.14				
18	Adjustment to reflect annualized depreciation expenses	Charnas =>					
		Bellar	1.15		385,987	(385,987)	(385,987
20	Adjustment to reflect increases in labor and labor related costs	Scott => Rives	1.16		456,780	(456,780)	(456,780
21		Scott => Rives Arbough	1.17	 	78,706	(78,706)	(78,706
		Arbough	1.19		88,922 128,741	(88,922) (128,741)	(88,922 (128,741
		Bellar	1.20		120,741	(120,741)	(120,741
24		Scott Exh 1	1.21				
	Adjustment for injuries and damages FERC account 925	Charnas	1.22		38,531	(38,531)	(38,531
26		Charnas					
77	KAR 5:016	01	1.23		(149,398)	149,398	149,398
	Adjustment for expenses related to retired mainframe Adjustment for MISO Exit Fee regulatory asset	Charnas Scott => Rives	1.24 1.25		(352,000)	352,000	352,000
	Adjustment fur EKPC regulatory asset	Scott	1.26				
	Adjustment for 2008 Wind storm regulatory asset	Scott	1.27				
31		Scott	1.28		33,538	(33,538)	
	Adjustment for KCCS regulatory asset	Bellar	1.29				
33	Adjustment for CMRG regulatory aSset	Bellar	1.30				
34	Adjustment to reflect amortization of rate case expenses	Charnas	1.31		107,664	(107,664)	(107,664
35	Adjustment for Southwest Power Pool settlement expenses Adjustment to remove out ofperiod adjustment for resettlements related to	Bellar Scott	1.32				
-	MISO RSG	SCOLL	1.33				
37	Adjustment for USGC settlement for gypsum contract		1.34				
_38	Adjustment to remove FERC Hydropower program charges	Charnas	1.35				
	Adjustment for Interest rate swap amortization	Arbough Exh 3	1.36		52,677	(52,677)	(52,677
	Adjustment to correct Edison Electric Institute Invoice	Charnas	1.37		(62,735)	62,735	62,735
	To adjust property tax expense Adjustment to revenues and expenses to eliminate gas supply cost recoveries	Miller	1.38	ļ	(29,440)	29,440	29,440
42	and gas supply expenses	Conroy Exh 6	1.39	(322,476,565)	(306,994,052)	(15,482,513)	(15,482,513
43		Seelye	1.40	(248,948)	(300,994,032)	(248,948)	(248,948
	AG Consolidated Tax Adjustment	000.70	21.10	(2 10/5 10/		(210,510)	4,250,645
44	Total of above adjustments			(299,715,697)	(307,573,170)	7,857,473	12,141,656
45	Federal and state income taxes corresponding to base revenue and expense						
	adjustments and above adjustments -	37.1912	1.41	 	2,922,292	(2,922,292)	1 443 455
46	AG Federal and state income taxes - Federal and state income taxes corresponding to annualityion and adjustment of	11.88820547				~	1,443,425
	year-end interest expense		1.42		(74,790)	71,821	122,77
	Prior income tax true-ups and adjustments		1.43		232,125	(232,125)	(232,125
48	Adjustment for domestic production activities deduction		1.44				, ==,==,
	Adjustment for tax basis depreciation reduction		1.45				
	Adjustment for amortization of investment tax credit		1.46		13,472	(13,472)	(13,47
53	Total adjustments			(299,715,697)	(304,480,071)	4,761,405	12,018,836
52	Adjusted Net Operating Income			(299,715,697)	94,489,845	24,681,748	31,939,180
				,200,10,007)	24,402,043	27,001,770	52,333,100
Rive							
	ibit 8						
	No.						,
	Adjusted Gas Capitalization (Rives Exhibit 2) Total Cost of Capital (8.32% Co.) and 7.06% AG - Schedule 1.1			 		466,472,962	466,472,96
	Net Operating Income (Line 1 x Line 2)			1		8.32% 38,810,550	6.81 31,766,80
	Pro-forma Net Operating Income - Line 51, above			 		24,681,748	31,766,80
	Net Operating Income Deficiency/(Sufficiency) (Line 3 - Line 4)					14,128,802	(172,37
					 		
6	Gross Up Revenue Factor (.62521919 Co.) and .87794723 AG - Schedule 1.3.4 Li Overall Revenue Deficiency/(Sufficiency) (Line 5 / Line 6)	ne 11	l			0.62521919	0.8779472

Gas Utility Operations

Capitalization at October 31, 2009

	Capitalization	Cost	Weighted
Capital	Ratio*	Rate	Cost Rate
Short-To	0.00%	0.22%	0.00%
Long-Te	50.00%	4.61%	2.31%
Commoi	50.00%	9.00%	4.50%
Total	100.00%		6.81%

Adjustment for 2009 Winter Storm Regulatory Asset <u>For the Twelve Months Ended October 31, 2009</u>

	C	ompany	4	AG
		Gas		Gas
1. Kentucky Jurisdictional 2009 Winter Storm Regulatory Asset	\$	167,689	\$	-
2. Adjustment to 2009 Winter Storm Regulatory Asset made in Nov '09		_	\$	
3. Subtotal	\$	167,689	\$	-
4. Amortization period in years	*****************	5		0
5. Amortization per year	\$	33,538	\$	-
6. Amortization recorded in test year				
7. Total Adjustment	\$	33,538	\$	-

KU & LG&E Consolidated Tax Savings and Effective Tax Rate

KU		2007	2008	2009	2 Year Average
Positive Taxable Income					
KU Taxable Income					
Percent KU					
Tax Losses					
Tax Losses Allocated to KU					
2 Year Average					
Federal Income Taxes					
7 @35%	0.35				
B Effective tax rate					

	LG&E		2007	2008	2009	2 Year Average
			. *			
9	Positive Taxable Income					
10	LG&E Taxable Income					
11	Percent LG&E					76 (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B
12	Tax Losses					
	Tax Losses Allocated to		_			
13	LG&E					
14	2 Year Average					
	Federal Income Taxes					·
15	@35%	0.35		·		
16	Effective tax rate					

Source: Response to AG 1-57

	Test Year Income Taxes		Allocated
Allocation of Savings to LGE Electric and Gas	1/	Percent	Savings
Electric Gas			
Total			

1/ Source: Filing Requirement 10(7)(a)

Calculation of Composite Federal and Kentucky Income Tax Rate (Based on Law in Effect January 1, 2010)

(Based on Law in Effect January 1, 2010)	Company	AG
	Gas	Gas
1. Assume pre-tax income of	100.000000	100.000000
2. State income tax at 6.00%	5.736438	5.695585348
3. Taxable income for Federal income tax before production deduction Production Rate 0.09 Allocation to Production Income 0.5175 Allocated Production Rate 4.66%	94.263562	94.304415
4. Less: Production tax deduction (5.38% of Line 3)	4.3927	5.073577527
5. Taxable income for Federal income tax (Line 3 - Line 4)	89.87088001	89.23083747
6. Federal income tax at 35% (Line 5 x 35%)	31.454808	6.192620121
7. Total State and Federal income taxes (Line 2 + Line 6)	37.191246	11.88820547
8. Therefore, the composite rate is:		
9. Federal	0.31454808	0.061926201
10. State	0.05736438	0.056955853
11. Total	0.37191246	0.118882055
State Income Tax Calculation		
1. Assume pre-tax income of	100.000000	100.000000
2. Less: Production tax deduction	4.3927	5.073577527
3. Taxable income for State income tax	95.607300	94.926422
4. State Tax Rate	0.06	0.06
5. State Income Tax	5.736438	5.695585348

Calculation of Current Tax Adjustment Resulting <u>From "Interest Synchronization"</u>

	Company		AG				
Adjusted Jurisdictional Capitalization - Exhibit 2	\$	Electric 1,805,791,767	\$ Gas 466,472,963	\$	Electric 1,805,791,767	\$	Gas 466,472,963
2. Weighted Cost of Debt - Exhibit 2		0.0213	0.0213		0.0231		0.0231
3. "Interest Synchronization"		38,463,365	9,935,874		41,713,790		10,775,525
4. Kentucky Jurisdictional Interest per books (excluding other interest)		38,050,134	9,742,761		38,050,134		9,742,761
5. "Interest Synchronization" adjustment (Line 4 - 3)		(413,231)	(193,113)		(3,663,656)		(1,032,764)
6. Composite Federal and State tax rate		0.37191246	0.37191246		0.118882055		0.118882055
7. Current tax adjustment from "Interest Synchronization"	\$	(153,686)	\$ (71,821)	\$	(435,543)	\$	(122,777)

Calculation of Revenue Gross Up Factor (Based on Law in Effect January 1, 2010)

	Company	AG
1. Assume pre-tax income of	100.000000	100.000000
2. Bad Debt at .2800%	0.315650	0.315650
3. PSC Assessment at .1538%	0.153800	0.153800
4. Production Tax Credit (Reference Schedule 1.41)	4.392682	4.392682
5. Taxable income for State income tax	95.137868	95.137868
6. State income tax at 6.00%	5.708272	5.708272
7. Taxable income for Federal income tax	89.429596	89.429596
8. Federal income tax at (35% Co.) and 6.94 % SK	31.30035857	6.027554765
9. Total Bad Debt, PSC Assessment, State and Federal income taxes		
(Line 2 + Line 3 + Line 6 + Line 8)	37.478081	12.205277
10. Assume pre-tax income of	100.000000	100.000000
11. Gross Up Revenue Factor	62.521919	87.794723

Experience

Snavely King Majoros O'Connor & Bedell, Inc.

Vice President and Treasurer (1988 to Present) Senior Consultant (1981-1987)

Mr. Majoros provides consultation specializing in accounting, financial, and management issues. He has testified as an expert witness or negotiated on behalf of clients in more than one hundred thirty regulatory federal and state regulatory proceedings involving telephone, electric, gas, water, and sewerage companies. His testimony has encompassed a wide array of complex issues including taxation, divestiture accounting, revenue requirements, rate base, nuclear decommissioning, plant lives, and capital recovery. Majoros has also provided consultation to the U.S. Department of Justice and appeared before the U.S. EPA and the Maryland State Legislature on matters regarding the accounting and plant life effects of electric plant modifications and the financial capacity of public utilities to finance environmental controls. He has estimated economic damages suffered by black farmers in discrimination suits.

Van Scoyoc & Wiskup, Inc., Consultant (1978-1981)

Mr. Majoros conducted and assisted in various management and regulatory consulting projects in the public utility field, including preparation of electric system load projections for a group of municipally and cooperatively owned electric systems; preparation of a system of accounts and reporting of gas and oil pipelines to be used by a state regulatory commission; accounting system analysis and design for rate proceedings involving electric, gas, and telephone utilities. Mr. Majoros provided onsite management accounting and controllership assistance to a municipal electric and water utility. Mr. Majoros also assisted in an antitrust proceeding involving a major electric utility. He submitted expert testimony in FERC Docket No. RP79-12 (El Paso Natural Gas Company), and he co-authored a study entitled Analysis of Staff Study on Comprehensive Tax Normalization that was submitted to FERC in Docket No. RM 80-42.

Handling Equipment Sales Company, Inc. *Controlled Treasurer (1976-1978)*

Mr. Majoros' responsibilities included financial management, general accounting and reporting, and income taxes.

Ernst & Ernst, Auditor (1973-1976)

Mr. Majoros was a member of the audit staff where his responsibilities included auditing, supervision, business systems analysis, report preparation, and corporate income taxes.

University of Baltimore - (1971-1973)

Mr. Majoros was a full-time student in the School of Business.

During this period Mr. Majoros worked consistently on a parttime basis in the following positions: Assistant Legislative Auditor — State of Maryland, Staff Accountant — Robert M. Carney & Co., CPA's, Staff Accountant — Naron & Wegad, CPA's, Credit Clerk — Montgomery Wards.

Central Savings Bank, (1969-1971)

Mr. Majoros was an Assistant Branch Manager at the time he left the bank to attend college as a full-time student. During his tenure at the bank, Mr. Majoros gained experience in each department of the bank. In addition, he attended night school at the University of Baltimore.

Education

University of Baltimore, School of Business, B.S. – Concentration in Accounting

Professional Affiliations

American Institute of Certified Public Accountants Maryland Association of C.P.A.s Society of Depreciation Professionals

Publications, Papers, and Panels

"Analysis of Staff Study on Comprehensive Tax Normalization," FERC Docket No. RM 80-42, 1980.

"Telephone Company Deferred Taxes and Investment Tax Credits – A Capital Loss for Ratepayers," Public Utility Fortnightly, September 27, 1984.

"The Use of Customer Discount Rates in Revenue Requirement Comparisons," Proceedings of the 25th Annual Iowa State Regulatory Conference, 1986

"The Regulatory Dilemma Created By Emerging Revenue Streams of Independent Telephone Companies," Proceedings of NARUC 101st Annual Convention and Regulatory Symposium, 1989.

"BOC Depreciation Issues in the States," National Association of State Utility Consumer Advocates, 1990 Mid-Year Meeting, 1990.

"Current Issues in Capital Recovery" 30th Annual Iowa State Regulatory Conference, 1991.

"Impaired Assets Under SFAS No. 121," National Association of State Utility Consumer Advocates, 1996 Mid-Year Meeting, 1996.

"What's 'Sunk' Ain't Stranded: Why Excessive Utility Depreciation is Avoidable," with James Campbell, Public Utilities Fortnightly, April 1, 1999.

"Local Exchange Carrier Depreciation Reserve Percents," with Richard B. Lee, Journal of the Society of Depreciation Professionals, Volume 10, Number 1, 2000-2001

"Rolling Over Ratepayers," Public Utilities Fortnightly, Volume 143, Number 11, November, 2005.

"Asset Management – What is it?," American Water Works Association, Pre-Conference Workshop, March 25, 2008.

<u>Date</u>	Jurisdiction /	Docket	Utility
	<u>Agency</u>		
		Federal Courts	
2005	US District Court, Northern District of AL, Northwestern Division 55/56/57/	CV 01-B-403-NW	Tennessee Valley Authority

State Legislatures

2006	Maryland General	SB154	Maryland Healthy Air Act
	Assembly 61/		
2006	Maryland House of	HB189	Maryland Healthy Air Act
	Delegates 62/		

Federal Regulatory Agencies

1979	FERC-US <u>19</u> /	RP79-12	El Paso Natural Gas Co.
1980	FERC-US <u>19</u> /	RM80-42	Generic Tax Normalization
1996	CRTC-Canada 30/	97-9	All Canadian Telecoms
1997	CRTC-Canada 31/	97-11	All Canadian Telecoms
1999	FCC <u>32</u> /	98-137 (Ex Parte)	All LECs
1999	FCC <u>32</u> /	98-91 (Ex Parte)	All LECs
1999	FCC <u>32</u> /	98-177 (Ex Parte)	All LECs
1999	FCC <u>32</u> /	98-45 (Ex Parte)	All LECs
2000	EPA <u>35</u> /	CAA-00-6	Tennessee Valley Authority
2003	FERC <u>48</u> /	RM02-7	All Utilities
2003	FCC <u>52</u> /	03-173	All LECs
2003	FERC <u>53</u> /	ER03-409-000,	Pacific Gas and Electric Co.
		ER03-666-000	

State Regulatory Agencies

1982	Massachusetts <u>17</u> /	DPU 557/558	Western Mass Elec. Co.
1982	Illinois <u>16</u> /	ICC81-8115	Illinois Bell Telephone Co.
1983	Maryland <u>8</u> /	7574-Direct	Baltimore Gas & Electric Co.
1983	Maryland <u>8</u> /	7574-Surrebuttal	Baltimore Gas & Electric Co.
1983	Connecticut 15/	810911	Woodlake Water Co.
1983	New Jersey 1/	815-458	New Jersey Bell Tel. Co.
1983	New Jersey 14/	8011-827	Atlantic City Sewerage Co.
1984	Dist. Of Columbia 7/	785	Potomac Electric Power Co.
1984	Maryland <u>8</u> /	7689	Washington Gas Light Co.
1984	Dist. Of Columbia 7/	798	C&P Tel. Co.
1984	Pennsylvania <u>13</u> /	R-832316	Bell Telephone Co. of PA
1984	New Mexico 12/	1032	Mt. States Tel. & Telegraph
1984	Idaho <u>18</u> /	U-1000-70	Mt. States Tel. & Telegraph

1004	Colorada 11/	1055	Mt States Tol 9 Tolograph
1984	Colorado 11/	1655	Mt. States Tel. & Telegraph
1984	Dist. Of Columbia 7/	813	Potomac Electric Power Co.
1984	Pennsylvania 3/	R842621-R842625	Western Pa. Water Co.
1985	Maryland 8/	7743	Potomac Edison Co.
1985	New Jersey 1/	848-856	New Jersey Bell Tel. Co.
1985	Maryland 8/	7851	C&P Tel. Co.
1985	California 10/	I-85-03-78	Pacific Bell Telephone Co.
1985	Pennsylvania <u>3</u> /	R-850174	Phila. Suburban Water Co.
1985	Pennsylvania <u>3</u> /	R850178	Pennsylvania Gas & Water Co.
1985	Pennsylvania <u>3</u> /	R-850299	General Tel. Co. of PA
1986	Maryland <u>8</u> /	7899	Delmarva Power & Light Co.
1986	Maryland <u>8</u> /	7754	Chesapeake Utilities Corp.
1986	Pennsylvania <u>3</u> /	R-850268	York Water Co.
1986	Maryland 8/	7953	Southern Md. Electric Corp.
1986	Idaho <u>9</u> /	U-1002-59	General Tel. Of the Northwest
1986	Maryland <u>8</u> /	7973	Baltimore Gas & Electric Co.
1987	Pennsylvania <u>3</u> /	R-860350	Dauphin Cons. Water Supply
1987	Pennsylvania 3/	C-860923	Bell Telephone Co. of PA
1987	lowa 6/	DPU-86-2	Northwestern Bell Tel. Co.
1987	Dist. Of Columbia 7/	842	Washington Gas Light Co.
1988	Florida 4/	880069-TL	Southern Bell Telephone
1988	lowa <u>6</u> /	RPU-87-3	Iowa Public Service Company
1988	lowa 6/	RPU-87-6	Northwestern Bell Tel. Co.
1988	Dist. Of Columbia 7/	869	Potomac Electric Power Co.
1989	lowa <u>6</u> /	RPU-88-6	Northwestern Bell Tel. Co.
1990	New Jersey 1/	1487-88	Morris City Transfer Station
1990	New Jersey <u>5</u> /	WR 88-80967	Toms River Water Company
1990	Florida <u>4</u> /	890256-TL	Southern Bell Company
1990	New Jersey 1/	ER89110912J	Jersey Central Power & Light
1990	New Jersey 1/	WR90050497J	Elizabethtown Water Co.
1991	Pennsylvania 3/	P900465	United Tel. Co. of Pa.
1991	West Virginia 2/	90-564-T-D	C&P Telephone Co.
1991	New Jersey 1/	90080792J	Hackensack Water Co.
1991	New Jersey 1/	WR90080884J	Middlesex Water Co.
1991	Pennsylvania <u>3</u> /	R-911892	Phil. Suburban Water Co.
1991	Kansas <u>20</u> /	176, 716-U	Kansas Power & Light Co.
1991	Indiana <u>29</u> /	39017	Indiana Bell Telephone
1991	Nevada <u>21</u> /	91-5054	Central Tele. Co. – Nevada
1992	New Jersey 1/	EE91081428	Public Service Electric & Gas
1992	Maryland <u>8</u> /	8462	C&P Telephone Co.
			
1992	West Virginia 2/	91-1037-E-D	Appalachian Power Co.
1993	Maryland 8/	8464	Potomac Electric Power Co.
1993	South Carolina 22/	92-227-C	Southern Bell Telephone
1993	Maryland 8/	8485	Baltimore Gas & Electric Co.
1993	Georgia <u>23</u> /	4451-U	Atlanta Gas Light Co.

1993 New Jersey 1/ GR93040114 New Jersey Natural Gas. Co. 1994 Iowa 6/ RPU-93-9 U.S. West – Iowa 1994 Iowa 6/ RPU-94-3 Midwest Gas 1995 Delaware 24/ 94-149 Wilm. Suburban Water Corp. 1995 Connecticut 25/ 94-10-03 So. New England Telephone 1995 Connecticut 25/ 95-03-01 So. New England Telephone 1995 Pennsylvania 3/ R-00953300 Citizens Utilities Company 1996 Maryland 8/ 8715 Bell Atlantic 1996 Maryland 8/ 8715 Bell Atlantic 1996 New Hampshire 27/ DE 96-252 New England Telephone 1997 Iowa 6/ DPU-96-1 U S West – Iowa 1997 Ohio 28/ 96-922-TP-UNC Ameritech – Ohio 1997 Michigan 28/ U-11280 Ameritech – Ohio 1997 Michigan 28/ U-112 81 GTE North 1997 Wyoming 27/ 7000-ztr-96-323 US West – Wyoming 1997 I	
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1999 Michigan <u>33</u> /	
2000 Delaware 24/ 99-466 Tidewater Utilities	
2000 New Mexico 34/ 3008 US WEST Communications,	Inc
2000 Florida 28/ 990649-TP BellSouth -Florida	1110.
2000 New Jersey 1/ WR30174 Consumer New Jersey Water	
2000 Pennsylvania 3/ R-00994868 Philadelphia Suburban Water	
2000 Pennsylvania 3/ R-0005212 Pennsylvania American Sewe	
2000 Connecticut 25/ 00-07-17 Southern New England Telep	
2001 Kentucky 36/ 2000-373 Jackson Energy Cooperative	110116
2001 Kansas 38/39/40/ 01-WSRE-436-RTS Western Resources	
2001 South Carolina 22/ 2001-93-E Carolina Power & Light Co.	
2001 North Dakota 37/ PU-400-00-521 Northern States Power/Xcel I	

2001	Indiana <u>29/41</u> /	41746	Northern Indiana Power Company
2001	New Jersey 1/	GR01050328	Public Service Electric and Gas
2001	Pennsylvania <u>3</u> /	R-00016236	York Water Company
2001			
	Pennsylvania 3/	R-00016339	Pennsylvania America Water
2001	Pennsylvania 3/	R-00016356	Wellsboro Electric Coop.
2001	Florida 4/	010949-EL	Gulf Power Company
2001	Hawaii <u>42</u> /	00-309	The Gas Company
2002	Pennsylvania <u>3/</u>	R-00016750	Philadelphia Suburban
2002	Nevada 43/	01-10001 &10002	Nevada Power Company
2002	Kentucky 36/	2001-244	Fleming Mason Electric Coop.
2002	Nevada 43/	01-11031	Sierra Pacific Power Company
2002	Georgia 27/	14361-U	BellSouth-Georgia
2002	Alaska 44/	U-01-34,82-87,66	Alaska Communications Systems
2002	Wisconsin 45/	2055-TR-102	CenturyTel
2002	Wisconsin 45/	5846-TR-102	TelUSA
2002	Vermont 46/	6596	Citizen's Energy Services
2002	North Dakota 37/	PU-399-02-183	Montana Dakota Utilities
2002	Kansas 40/	02-MDWG-922-RTS	Midwest Energy
2002	Kentucky 36/	2002-00145	Columbia Gas
2002	Oklahoma 47/	200200166	Reliant Energy ARKLA
2002	New Jersey 1/	GR02040245	Elizabethtown Gas Company
2003	New Jersey 1/	ER02050303	Public Service Electric and Gas Co.
2003	Hawaii 42/	01-0255	Young Brothers Tug & Barge
2003	New Jersey 1/	ER02080506	Jersey Central Power & Light
2003	New Jersey 1/	ER02100724	Rockland Electric Co.
2003	Pennsylvania 3/	R-00027975	The York Water Co.
2003	Pennsylvania /3	R-00038304	Pennsylvania-American Water Co.
2003	Kansas 20/ 40/	03-KGSG-602-RTS	Kansas Gas Service
2003	Nova Scotia, CN 49/	EMO NSPI	Nova Scotia Power, Inc.
2003	Kentucky 36/	2003-00252	Union Light Heat & Power
2003	Alaska 44/	U-96-89	ACS Communications, Inc.
2003	Indiana 29/	42359	PSI Energy, Inc.
2003	Kansas 20/ 40/	03-ATMG-1036-RTS	Atmos Energy
2003	Florida 50/	030001-E1	Tampa Electric Company
2003	Maryland 51/	8960	Washington Gas Light
2003	Hawaii 42/	02-0391	Hawaiian Electric Company
2003	Illinois 28/	02-0864	SBC Illinois
2003	Indiana 28/	42393	SBC Indiana
2004	New Jersey 1/	ER03020110	Atlantic City Electric Co.
2004	Arizona 26/	E-01345A-03-0437	Arizona Public Service Company
2004	Michigan 27/	U-13531	SBC Michigan
2004	New Jersey 1/	GR03080683	South Jersey Gas Company
2004	Kentucky 36/	2003-00434,00433	Kentucky Utilities, Louisville Gas &
	,		Electric
2004	Florida 50/ 54/	031033-EI	Tampa Electric Company

2004	Kentucky 36/	2004-00067	Delta Natural Gas Company
2004	Georgia 23/	18300, 15392, 15393	Georgia Power Company
2004	Vermont 46/	6946, 6988	Central Vermont Public Service
2001	Volition: 10,	0040, 0000	Corporation
2004	Delaware 24/	04-288	Delaware Electric Cooperative
2004	Missouri 58/	ER-2004-0570	Empire District Electric Company
2005	Florida 50/	041272-EI	Progress Energy Florida, Inc.
2005	Florida 50/	041291-EI	Florida Power & Light Company
2005	California 59/	A.04-12-014	Southern California Edison Co.
2005	Kentucky 36/	2005-00042	Union Light Heat & Power
2005	Florida 50/	050045 & 050188-EI	Florida Power & Light Co.
2005	Kansas 38/ 40/	05-WSEE-981-RTS	Westar Energy, Inc.
2006	Delaware 24/	05-304	Delmarva Power & Light Company
2006	California 59/	A.05-12-002	Pacific Gas & Electric Co.
2006	New Jersey 1/	GR05100845	Public Service Electric and Gas Co.
2006	Colorado 60/	06S-234EG	Public Service Co. of Colorado
2006	Kentucky 36/	2006-00172	
2006	Kansas 40/	06-KGSG-1209-RTS	Union Light, Heat & Power Kansas Gas Service
2006	West Virginia 2/	06-0960-E-42T,	Allegheny Power
2000	West Virginia 2/	06-1426-E-D	Allegheny Fower
2006	West Virginia 2/	05-1120-G-30C,	Hope Gas, Inc. and Equitable
2000	West Viigina 2	06-0441-G-PC, et al.	Resources, Inc.
2007	Delaware 24/	06-284	Delmarva Power & Light Company
2007	Kentucky 36/	2006-00464	Atmos Energy Corporation
2007	Colorado 60/	06S-656G	Public Service Co. of Colorado
2007	California 59/	A.06-12-009,	San Diego Gas & Electric Co., and
	Jamorria 50,	A.06-12-010	Southern California Gas Co.
2007	Kentucky 36/	2007-00143	Kentucky-American Water Co.
2007	Kentucky 36/	2007-00089	Delta Natural Gas Co.
2008	Kansas 40/	08-ATMG-280-RTS	Atmos Energy Corporation
2008	New Jersey 1/	GR07110889	New Jersey Natural Gas Co.
2008	North Dakota 37/	PU-07-776	Northern States Power/Xcel Energy
2008	Pennsylvania 3/	A-2008-2034045 et	UGI Utilities, Inc. / PPL Gas Utilities
	, similayirama e,	al	Corp.
2008	Washington 63/	UE-072300,	Puget Sound Energy
	Tradegrett ee,	UG-072301	l aget count Energy
2008	Pennsylvania 3/	R-2008-2032689	Pennsylvania-American Water Co
	· · · · · · · · · · · · · · · · · · ·	11 2000 2002000	Coatesville
2008	New Jersey 1/	WR08010020	NJ American Water Co.
2008	Washington 63/ 64/	UE-080416,	Avista Corporation
	3.3 3	UG-080417	
2008	Texas 65/	473-08-3681, 35717	Oncor Electric Delivery Co.
2008	Tennessee 66/	08-00039	Tennessee-American Water Co.
2008	Kansas	08-WSEE-1041-RTS	Westar Energy, Inc.
2009	Kentucky 36/	2008-00409	East Kentucky Power Coop.

2009	Indiana 29/	43501	Duke Energy Indiana
2009	Indiana 29/	43526	Northern Indiana Public Service Co.
2009	Michigan 33/	U-15611	Consumers Energy Company
2009	Kentucky 36/	2009-00141	Columbia Gas of Kentucky
2009	New Jersey 1/	GR00903015	Elizabethtown Gas Company
2009	District of Columbia 7/	FC 1076	Potomac Electric Power

PARTICIPATION AS NEGOTIATOR IN FCC TELEPHONE DEPRECIATION RATE REPRESCRIPTION CONFERENCES

COMPANY	YEARS 9	CLIENT
Diamond State Telephone Co. 24/	1985 + 1988	Delaware Public Service Comm
Bell Telephone of Pennsylvania 3/	1986 + 1989	PA Consumer Advocate
Chesapeake & Potomac Telephone Co Md. 8/	1986	Maryland People's Counsel
Southwestern Bell Telephone – Kansas 20/	1986	Kansas Corp. Commission
Southern Bell – Florida 4/	1986	Florida Consumer Advocate
Chesapeake & Potomac Telephone CoW.Va. 2/	1987 + 1990	West VA Consumer Advocate
New Jersey Bell Telephone Co. 1/	1985 + 1988	New Jersey Rate Counsel
Southern Bell - South Carolina 22/	1986 + 1989 +	1992 S. Carolina Consumer Advocate
GTE-North – Pennsylvania 3/	1989	PA Consumer Advocate

PARTICIPATION IN PROCEEDINGS WHICH WERE SETTLED BEFORE TESTIMONY WAS SUBMITTED

STATE	DOCKET NO.	UTILITY
Maryland <u>8</u> /	7878	Potomac Edison
Nevada 21/	88-728	Southwest Gas
New Jersey 1/	WR90090950J	New Jersey American Water
New Jersey 1/	WR900050497J	Elizabethtown Water
New Jersey 1/	WR91091483	Garden State Water
West Virginia 2/	91-1037-E	Appalachian Power Co.
Nevada <u>21</u> /	92-7002	Central Telephone - Nevada
Pennsylvania <u>3</u> /	R-00932873	Blue Mountain Water
West Virginia2/	93-1165-E-D	Potomac Edison
West Virginia2/	94-0013-E-D	Monongahela Power
New Jersey <u>1</u> /	WR94030059	New Jersey American Water
New Jersey <u>1</u> /	WR95080346	Elizabethtown Water
New Jersey <u>1</u> /	WR95050219	Toms River Water Co.
Maryland <u>8</u> /	8796	Potomac Electric Power Co.
South Carolina <u>22</u> /	1999-077-E	Carolina Power & Light Co.
South Carolina <u>22</u> /	1999-072-E	Carolina Power & Light Co.
Kentucky <u>36</u> /	2001-104 & 141	Kentucky Utilities, Louisville Gas
Kentucky 36/	2002-485	and Electric Jackson Purchase Energy Corporation

Clients

1/ New Jersey Rate Counsel/Advocate	34/ New Mexico Attorney General
2/ West Virginia Consumer Advocate	35/ Environmental Protection Agency Enforcement Staff
<u>3</u> / Pennsylvania OCA	36/ Kentucky Attorney General
4/ Florida Office of Public Advocate	37/ North Dakota Public Service Commission
<u>5</u> / Toms River Fire Commissioner's	38/ Kansas Industrial Group
6/ Iowa Office of Consumer Advocate	39/ City of Witchita
<u>7</u> / D.C. People's Counsel	40/ Kansas Citizens' Utility Rate Board
8/ Maryland's People's Counsel	41/ NIPSCO Industrial Group
9/ Idaho Public Service Commission	42/ Hawaii Division of Consumer Advocacy
10/ Western Burglar and Fire Alarm	43/ Nevada Bureau of Consumer Protection
11/ U.S. Dept. of Defense	44/ GCI
12/ N.M. State Corporation Comm.	45/ Wisc. Citizens' Utility Rate Board
13/ City of Philadelphia	46/ Vermont Department of Public Service
14/ Resorts International	47/ Oklahoma Corporation Commission
15/ Woodlake Condominium Association	48/ National Assn. of State Utility Consumer Advocates
16/ Illinois Attorney General	49/ Nova Scotia Utility and Review Board
17/ Mass Coalition of Municipalities	50/ Florida Office of Public Counsel
8/ U.S. Department of Energy	51/ Maryland Public Service Commission
19/ Arizona Electric Power Corp.	52/ MCI
20/ Kansas Corporation Commission	53/ Transmission Agency of Northern California
21/ Public Service Comm. – Nevada	54/ Florida Industrial Power Users Group
22/ SC Dept. of Consumer Affairs	55/ Sierra Club
23/ Georgia Public Service Comm.	56/ Our Children's Earth Foundation
24/ Delaware Public Service Comm.	57/ National Parks Conservation Association, Inc.
25/ Conn. Ofc. Of Consumer Counsel	58/ Missouri Office of the Public Counsel
26/ Arizona Corp. Commission	59/ The Utility Reform Network
<u>27</u> / AT&T	60/ Colorado Office of Consumer Counsel
28/ AT&T/MCI	61/ MD State Senator Paul G. Pinsky
29/ IN Office of Utility Consumer	62/ MD Speaker of the House Michael Busch
Counselor	
30/ Unitel (AT&T - Canada)	63/ Washington Office of Public Counsel
31/ Public Interest Advocacy Centre	64/ Industrial Customers of Northwestern Utilities
32/ U.S. General Services Administration	65/ Steering Committee of Cities
33/ Michigan Attorney General	66/ City of Chattanooga

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:			
APPLICATION OF LOUISVILLE OF AND ELECTRIC COMPANY FOR ADJUTMENT OF BASE RATES)) (CASE NO. 2009-00549
AFFIDAVIT (OF MICHA	AEL M	AJOROS
) Commonwealth of Virginia))			
Michael Majoros, being first prepared Pre-Filed Direct Testimos thereto constitute the direct testime states that he would give the answ if asked the questions propounded of his knowledge, his statements mot. SUBSCRIBED AND SWORN to be	ny, and the ony of Affi ers set fort I therein. A nade are tr	e Schediant in the Affiant in the and hael M	dules and Appendix attached the above-styled case. Affiant e Pre-Filed Direct Testimony further states that, to the best correct. Further affiant saith
My Commission Expires: My Comm	NO'	TARY .	PUBLIC
ing continuous in pirco.		*	